DAILY QUEST



Given the polynomials, identify the monomial, binomial and trinomial.

$$0 | 5x^2 + 6y^3 |$$

$$0 5x^2y^3$$
 mon

$$3 x^2 + 3x - 6$$

$$y + 2(5 + y)$$

$$4x^7 + 6x^6 + 5x$$

$$7-10y$$
 bin.

Homework Lesson 3.2/14.1

7:56 AM

- 1. Jalen earns a base salary of \$40 a day plus 20% of his sales. The expression 40 + .2s can be used to represent how much he earns.
 - · What does 40 represent? base salary
 - What does 0.2 represent? 20% of his sales
 - · What does s represent? amount sold in sales
 - Using the expression 40 +.2s, how much will Jalen earn if he sells \$420 in merchandise?

Evaluate the expression x = 3 and y = -4

2.
$$6(y+7)-2x^2$$

 \bigcirc

$$6(-4+7) - 2(3)^{2}$$

$$6(3) - 2(3)^{2}$$

$$6(3) - 2(9)$$

$$18 - 18$$

Write an equivalent expression by simplifying the problem.

3.
$$25b + 14 - 16b$$

9b + $\frac{14}{9}$

4.
$$16x + 15 - 4x - 8$$

 $12 \times + 7$

5.
$$6x^2 + 9y - 12 + 4y - 3x^2$$

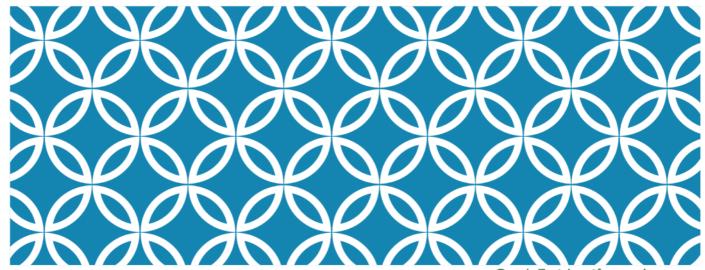
 $3x^2 + 13y - 12$

6.
$$22a - 16a^{2} + 27a^{2} + 11a - 39$$

 $33\alpha + 11\alpha^{2} - 39$

7.
$$5a^{2}b^{3} + 11a^{3} + 7a^{2}b^{3} - 3a^{3} + 12 - 2a^{2}b^{3}$$

$$10a^{2}b^{3} + 8a^{3} + 12$$



LESSON 3.2/14.1 EQUIVALENT EXPRESSIONS WITH DISTRIBUTIVE PROPERTY

Goal: To identify, evaluate and use operations with expressions/polynomials.

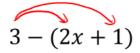
Obj: SWBAT make equivalent expressions with distributive property.

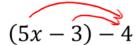
DISTRIBUTIVE PROPERTY

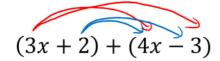
Basically it's multiply a value outside a set of Parentheses(Grouping symbols) to values inside the grouping symbols.

Situations

Incorrect (distributive)







What do you notice is the difference between correct and incorrect distributive property?

Correct (distributive)

$$3(2x+1)$$

$$(5x-3)(-4)$$

$$(3x+2)(4x-3)$$

PROBLEM 1:

$$\overset{2}{\times} \overset{3}{\times} \overset{2+3}{\times} = \overset{5}{\times}$$

Simplify the expression into simplest form.

Prove that each simplified expression is equivalent.

$$2x(x-4)$$

$$3x^{2}(x^{2}+7)$$

$$3x^{3}+\lambda |x^{2}|$$

$$\frac{3^{4}(2x^{2} + 5x^{1})}{6x^{6} + 15x^{5}}$$

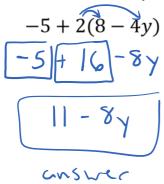
$$-2x^{\frac{3}{2}(6x^{1}-5x^{\frac{3}{2}})}$$

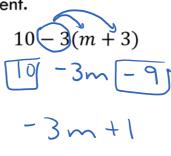
$$-12x^{4}+10x^{5}$$

PROBLEM 1A:

Simplify the expression into simplest form.

Prove that each simplified expression is equivalent.





PROBLEM 1B:

Simplify the expression into simplest form.

$$5(1-9x)+4$$

$$5(-45x)+4$$

$$-2(10x + 3) + 10x$$

$$-20x - 6 + 10x$$

$$-10x - 6$$

PROBLEM 1C:

Simplify the expression into simplest form.

$$12 - 3(4 - x) + 4x$$

$$0 + 7 \times$$

$$-2(2x-5) + 5x + 6$$

$$-4x + 6$$

$$+5x + 6$$

$$+5x + 6$$

PROBLEM 1D: CHALLENGE

Simplify the expression into simplest form.

$$4y^4 - (3y^2 + 3y^4) + y^2$$

$$-m^3-(2n^2-m^3)+6n^2$$

PROBLEM 2:

Which expressions below are equivalent to

$$8b+3(2b+5)-3$$

$$I. 8b + 6b - 2$$

II.
$$8b + 6b + 15 - 3$$

III.
$$8b + 3(7b) - 3$$

$$IV. 14b + 12$$

PROBLEM 2A:

Which expressions below are equivalent to 6x-5(-3-2x)

$$I. 6x + 15 + 10x$$

II.
$$6x-15-10x$$

III.
$$16x + 15$$

IV.
$$-4x - 15$$

PROBLEM 2B:

Which expressions below are equivalent to $6y+9-2-8y+4y^2$

$$6v+9-2-8v+4v^2$$

$$I. 2y^3 + 7$$

II.
$$6y + 7 - 8y + 4y^2$$

III.
$$-2y + 7 + 4y^2$$

IV.
$$18y^3 + 7$$